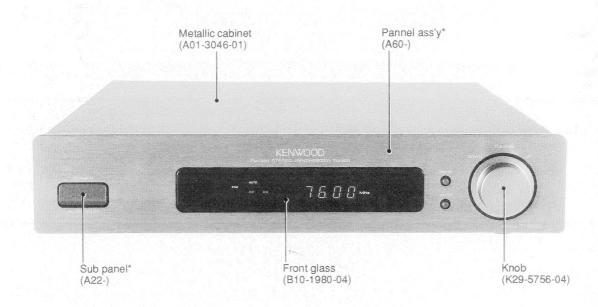
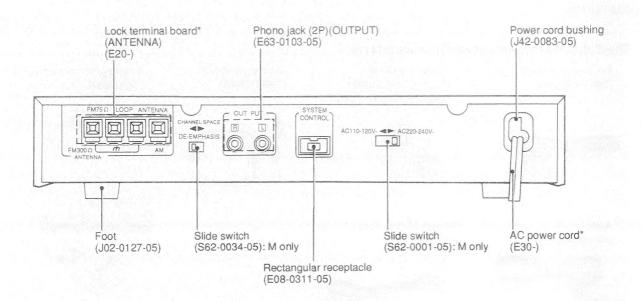
FM/AM STEREO SYNTHESIZER TUNER

# T-1001/L SERVICE MANUAL

KENWOOD

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#### **Accessories**

## Check that the following accessories are present.

FM indoor antenna ...... 1 (T90-0176-05)

Antenna adaptor ......1 (For U.K. and Europe) (T90-0185-05): E, T ONLY

AM loop antenna ......1 (T90-0173-05)

Loop antenna stand ..... 1 (J19-2815-04)



Audio cord ......1 (E30-2600-05)

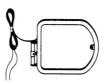






System control cord ...... 1 (E30-2628-05)





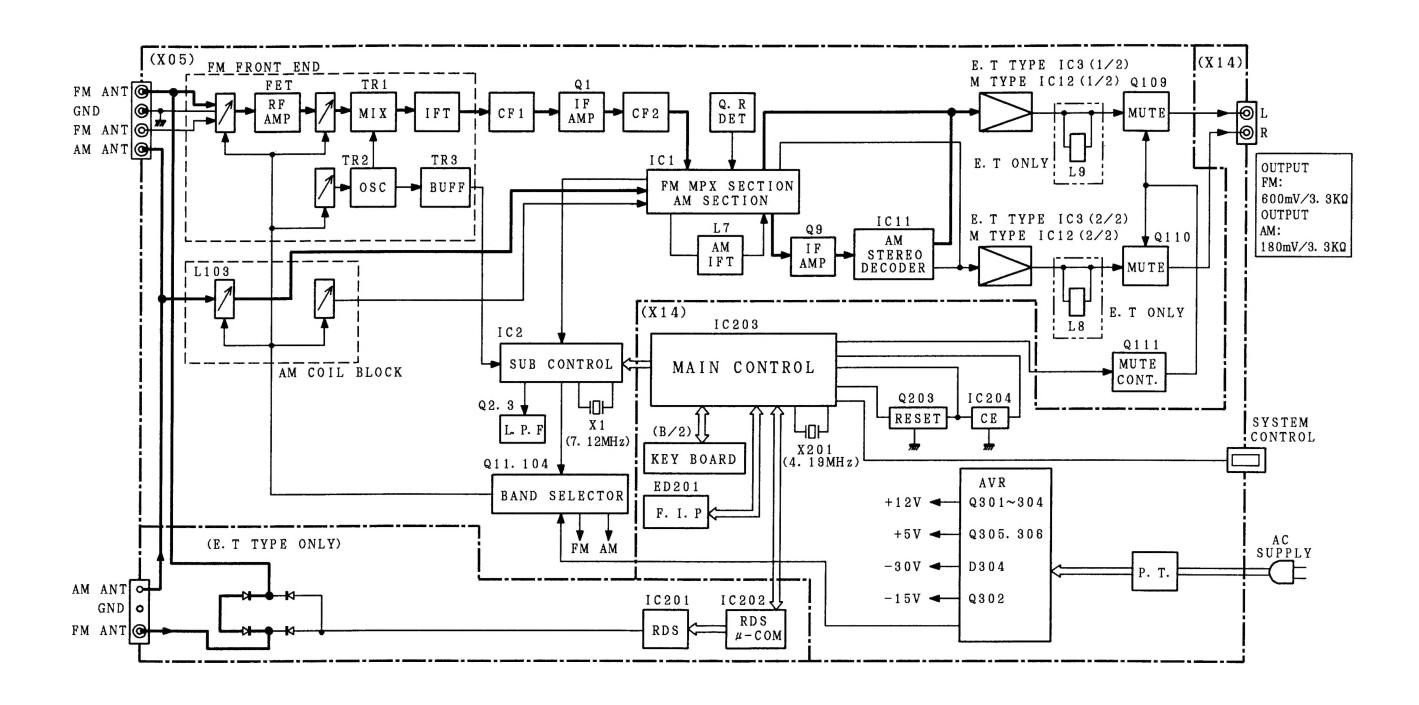
AC plug adaptor .....1 (Except for some areas) (E03-0115-05): M ONLY



For the unit with a European AC plug in areas other than Europe

# T-1001/L T-1001/L

## **BLOCK LEVEL DIAGRAM**



# T-1001/L T-1001/L

## CIRCUIT DESCRIPTION

TUNER u-Com: uPD78043GF-039 (X14: IC203)

1. Function Description

20 ch random preset.

Synchronization control with IF COUNT.

RDS function (E,T TYPE only).

AM STEREO compatible.

2. Controlled Units

(1) PLL IC

LC7218

(2) RDS synchronizing microcomputer (E TYPE only).

LC6543H-4600

(3) Fluorescent display tube (9 grid/16 segment)

→ Dynamic drive via microcomputer. CM1224C

#### 3. Destination

Destination		D	ode S	w		Band	Receive frequency	Inter channel	IF	RF
	4	3	2	1	0		range	space		***
J	*	*	*	*	0	FM	76.0 MHz - 90.0 MHz	100 kHz	-10.7 MHz	25 kHz
J					0	AM	531 kHz - 1602 kHz	9 kHz	+450 kHz	9 kHz
<b>K</b> 1			1	0	1	FM	87.5 MHz - 108.0 MHz	100 kHz	+10.7 MHz	25 kHz
<b>N</b> I					'	AM	530 kHz - 1610 kHz	10 kHz	+450 kHz	10 kHz
K2			0	0	1	FM	87.5 MHz - 108.0 MHz	100 kHz	+10.7 MHz	25 kHz
N2			0	U		AM	530 kHz - 1700 kHz	10 kHz	+450 kHz	10 kHz
F4	0	0	*	1	1	FM	87.5 MHz - 108.0 MHz	50 kHz	+10.7 MHz	25 kHz
E1	0					AM	531 kHz - 1602 kHz	9 kHz	+450 kHz	9 kHz
F41	1	0	*	4	4	FM RDS	87.5 MHz - 108.0 MHz	50 kHz	+10.7 MHz	25 kHz
E1'	•			1	1	AM	531 kHz - 1602 kHz	9 kHz	+450 kHz	9 kHz
						FM	87.5 MHz - 108.0 MHz	50 kHz	+10.7 MHz	25 kHz
E2	0	1	*	1	1	AM	531 kHz - 1602 kHz	9 kHz	+450 kHz	9 kHz
						LW	153 kHz - 279 kHz	9 kHz	+450 kHz	9 kHz
						FM RDS	87.5 MHz - 108.0 MHz	50 kHz	+10.7 MHz	25 kHz
E2'	1	1	*	1	1	AM	531 kHz - 1602 kHz	9 kHz	+450 kHz	9 kHz
						LW	153 kHz - 279 kHz	9 kHz	+450 kHz	9 kHz

Diode SW 0 → 0: J TYPE

1: K, E TYPE

Diode SW 1 → Inter channel space

0: FM 100 kHz/step, AM 10 kHz/step 1: FM 50 kHz/step, AM 9 kHz/step

Diode SW 2 → AM band range (K type only)

0: AM WIDE 1: AM NARROW Diode SW  $3 \rightarrow$ 

Select LW model or not.(E type only) 0: Without LW

1: With LW

Diode SW 4 → Select RDS model or not.(E type only)

0: Without RDS

1: With RDS

## CIRCUIT DESCRIPTION

#### 1. Test Mode

## 1.1 Test Mode with the Main Unit Keys

- (1) Setting Procedure
- While pressing the DOWN key, connect the AC outlet.
- (2) Cancellation
- When the AC outlet is disconnected, the initial setting will take effect and the test mode will be concelled.
- (3) Description

#### 3-1 Auto POWER ON

• When the AC outlet is connected while the DOWN key is pressed, the POWER will turn ON and all functions will be at the initial setting.

#### 3-2 ALL LED ON Mode

• When the AC outlet is connected while the DOWN key is pressed, all LEDs will light. Any key operation on the main unit thereafter will return the LEDs to normal.

#### 3-3 Main Unit Key Validity Check

• Whether the main unit's keys are operable (valid) can be checked. Regarding the keys whose display does not change when they are used, their display will be made to change.

3-4 Remote controller operation check with the main unit

· Use the SHUTTLE KEY UP/DOWN to adjust P.ch UP/DOWN.

#### 3-5 MUTE signal output

· The MUTE signal is not output.

#### 1.2 Test Mode With Serial Communications

#### (1) Setting Procedure

- For 16-bit serial communications, connect the AC outlet and enter the TEST ON code (0C2FFH).
- The serial test code can be received even within 1 second of POWER ON/OFF.

#### (2) Cancellation

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 For 16-bit serial communications, enter the TEST OFF code (0C2FEH) or disconnect the AC outlet

#### (3) Description

- 1. Other operations during the test mode (serial communications)
- During the test mode (serial communications), the main unit's keys, remote controller keys, and normal serial code will be ineffective.
- 2. Required operations for the test mode (serial communications).
- The serial code for the test mode (serial communications) can be used to check the operation of all circuits. Refer to the test mode serial code table.
- · The code entered during the test mode (serial communications) will be effective regardless of the display mode.
- · The following functions are available in the test mode (serial communications):

0 to 9, +10 AUTO (AUTO ST./MONO) MEMORY (ENTER) UP/DOWN (MANUAL SCAN unnecessary)

- · When a PRESET CH is called up and the SD detection prevention timer ends, a specific serial code will be output. The code will be output when the IF COUNT is executed and the IF COUNT is OK.
- During the test mode (serial communications), the MUTE signal is not output. This is for reducing the input-output switching time during the measurement.
- When a valid serial code for the test mode is received, the code identical to the code entered will be output.
- · For checking the MUTE operation, MUTE has a special code.

#### TUNER MUTE

- To switch cyclically, enter the individual serial code. For example for AUTO STEREO/MONO, enter the two codes for AUTO STEREO and MONO.
- All the FL and LEDs will light. To cancel, enter the cancellation code. The LEDs will then return to normal.
- All functions (including test mode) will be initialized

## **CIRCUIT DESCRIPTION**

#### 1.3 Initial Settings

#### (1) Setting Procedure

- If the unit has a backup function, hold down the BAND KEY and connect the AC outlet. This will obtain the initial settings.
- During the test mode set with main unit's keys and the test mode with serial communications, the initial settings can be obtained by disconnecting and reconnecting the AC outlet.

#### (2) Description

- All function (including test mode) will be initialized.
- The manufacturer's memory is always set in the preset CH and area.

#### 1.4 POWER ON Startup

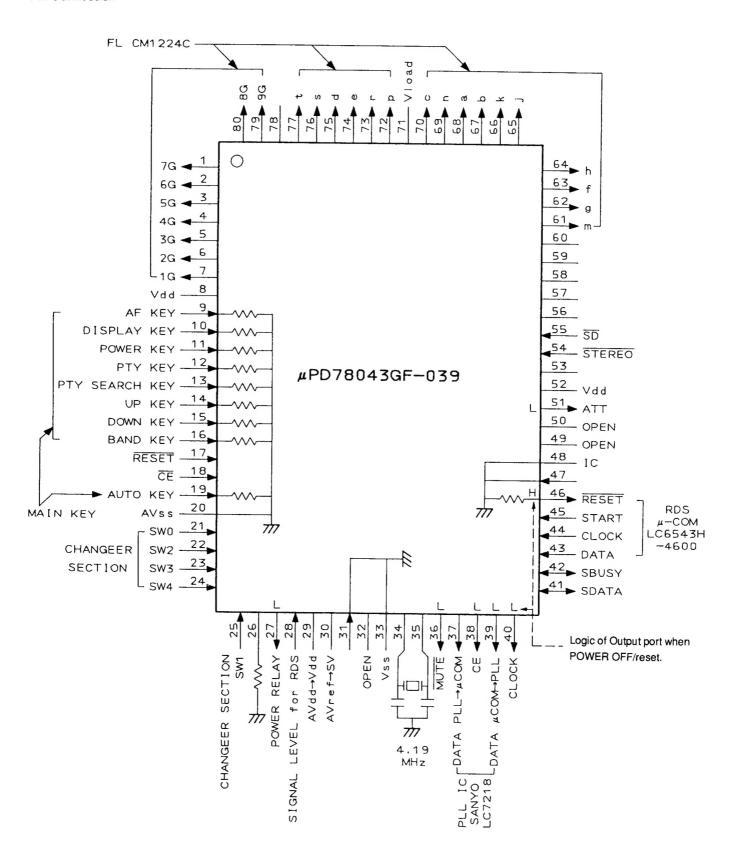
• Since the unit has a POWER key, no setting is required.

#### **Test Frequency**

	Туре	J Type	кт	уре	ET	уре	
СН		Without TV	Narrow	Wide	With LW	Without LW	
1		FM 76.0 MHz	FM 98.0 MHz	FM 98.0 MHz	FM 98.0 MHz	FM 98.0 MHz	
2		FM 78.0 MHz	FM 108.0 MHz	FM 108.0 MHz	FM 108.0 MHz	FM 108.0 MHz	
3		FM 83.5 MHz	AM 630 kHz	AM 630 kHz	AM 630 kHz	AM 630 kHz	
4		FM 88.0 MHz	AM 990 kHz	AM 990 kHz	AM 990 kHz	AM 990 kHz	
5		FM 90.0 MHz	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz	
6		AM 531 kHz	AM 1610 kHz	AM 1610 kHz	AM 1602 kHz	AM 1602 kHz	
7		AM 630 kHz	FM 87.5 MHz	AM 1700 kHz	LW 162 kHz	FM 87.5 MHz	
8		AM 990 kHz	FM 87.5 MHz	FM 87.5 MHz	LW 216 kHz	FM 87.5 MHz	
9		AM 1440 kHz	FM 87.5 MHz	FM 87.5 MHz	LW 270 kHz	FM 87.5 MHz	
10		AM 1602 kHz	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	
11		FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 279 kHz	FM 87.5 MHz	
12		FM 76.0 MHz	FM 90.0 MHz	FM 90.0 MHz	FM 90.0 MHz	FM 90.0 MHz	
13		FM 76.0 MHz	FM 106.0 MHz	FM 106.0 MHz	FM 106.0 MHz	FM 106.0 MHz	
14		FM 76.0 MHz	AM 530 kHz	AM 530 kHz	AM 531 kHz	AM 531 kHz	
15		FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 153 kHz	FM 87.5 MHz	
16		FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	
17		FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	
18		FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	
19		AM 990 kHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	
20		FM 89.1 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	

## **CIRCUIT DESCRIPTION**

#### Pin Connection



# **CIRCUIT DESCRIPTION**

## Pin Description

No.	Pin Name	Name	1/0	Description
1	FIP6	7G	0	FL grid 7
2	FIP5	6G	0	FL grid 6
3	FIP4	5G	0	FL grid 5
4	FIP3	4G	0	FL grid 4
5	FIP2	3G	0	FL grid 3
6	FIP1	2G	0	FL grid 2
7	FIP0	1G	0	FL grid 1
8	VDD			Power supply terminal for microcomputer
9	P27	AF key	ı	AF key input port
10	P26	DISPLAY key	1	Display key input port
11	P25	POWER key	ī	Power keyb input port
12	P24	PTY key	ı	PTY key input port
13	P23	PTY search key		PTY search key input port
14	P22	UP key	1	Up key input port
15	P21	DOWN key	1	Down key input port
16	P20	BAND key	ı	Band key input port
17	RESET	RESET		Microcomputer reset terminal
18	P74	CE	1	Chip enable detection ternimal
19	P73	AUTO key	1	Auto key input port
20	AVss			GND terminal for A/D converter
21	P17	INISW7	1	Destination switch 0 input port L:Japan, H:Other
22	P16	INISW6	I	Destination switch 2 input port L: AM WIDE, H:AM NARROW
23	P15	INISW5	1	Destination switch 3 input port L: Without LW, H: With LW
24	P14	INISW4	l L	Destination switch 4 input port L: Without RDS, H: With RDS
25	P13	INISW3	1	Destination switch 1 input port (Channel space) L: FM 100kHz, AM 10kHz, H: FM 50 kHz, AM 9 kHz
26	P12			Not used.
27	P11	POWER	0	Power supply port for peripheral circuit
28	ANI0	SGLEVL	1	Signal level A/D input port for RDS
29	AVDD			Power supply terminal for A/D converter
30	AVREF			Reference voltage input terminal for A/D converter
31	P04			Not used. (GND)
32	XT2			Not used. (Open)
33	Vss			GND terminal for microcomputer
34	X1			Oscillator connection terminal for system clock
35	X2			Oscillator connection terminal for system clock
36	P37	MUTE	0	Mute signal output terminal
37	P36	PIFCNT	0	PLL IF count data input terminal
38	P35	PLLCE	0	PLL CE output terminal
39	P34	PLLDAT	0	PLL data output terminal

# **CIRCUIT DESCRIPTION**

No.	Pin Name	Name	I/O	Description
40	P33	PLLCLK	0	PLL clock output terminal
41	P32	SDATA	1/0	Serial communication data signal input/output terminal
42	P31	SBUSY	1/0	Serial communication busy signal input/output terminal
43	P30	DDATA	1	Data input terminal for RDS synchronization microcomputer
44	P03	DCLOCK	1	Clock input terminal for RDS synchronization microcomputer
45	P02	DSTART	1	Start input terminal for RDS synchronization microcomputer
46	P01	RDSRESET	0	Reset output terminal for RDS synchronization microcomputer
47	P00			Not used
48	IC			Connected to Vss
49	P72			Not used
50	P71			Not used
51	P70	ATT	0	Attenuater control port H: ATT ON (RF DISTANCE) L: ATT OFF (RF DIRECT)
52	VDD			Power supply terminal for microcomputer
53				Not used
54	P126	STEREO	1	Stereo signal input terminal L: STEREO
55	P125	SD		SD signal input terminal L: TUNED ON
56	P124			Not used
57	P123			Not used
58	P122			Not used
59	P121			Not used
60	P120			Not used
61	FIP25	m	0	FL segment m
62	FIP24	g	0	FL segment g
63	FIP23	f	0	FL segment f
64	FIP22	h	0	FL segment f
65	FIP21	j	0	FL segment j
66	FIP20	k	0	FL segment k
67	FIP19	b	0	FL segment b
68	FIP18	а	0	FL segment a
69	FIP17	n	0	FL segment n
70	FIP16	С	0	FL segment c
71	VLOAD			- 30V terminal for FL
72	FIP15	р	0	FL segment p
73	FIP14	r	0	FL segment r
74	FIP13	е	0	FL segment e
75	FIP12	d	0	FL segment d
76	FIP11	S	0	FL segment s
77	FIP10	t	0	FL segment t
78	FIP9			Not used
79	FIP8	9G	0	FL grid 9
80	FIP7	8G	0	FL grid 8

## **CIRCUIT DESCRIPTION**

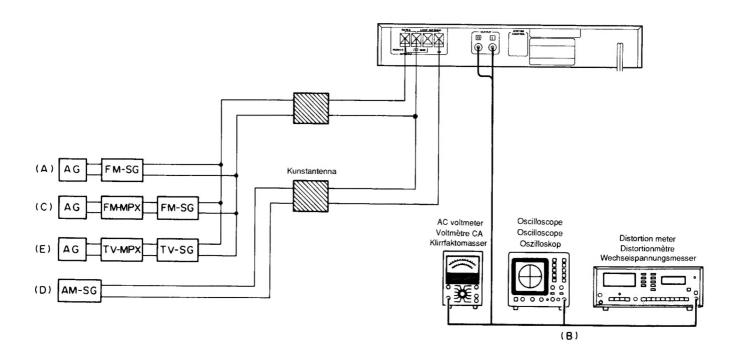
TUNER SERIAL TEST OFF TUNER SERIAL TEST ON ALL LIGHT ON ALL LIGHT OFF ۵ ပ TUNER В MEMORY (ENTER) BOTH 4 BAND FM BAND AM/MW BAND TV/LW ന S 6 5 6 ACTIVE RECEPTION OFF ACTIVE RECEPTION ON OWER OFF POWER ON RF DISTANCE TUNED OFF RF DIRECT MUTE OFF TUNED ON IF NARROW MUTE ON AUTO STEREO IF NORMAL IF WIDE DIRECT MONO AMP SERIAL TEST ON AMP SERIAL TEST ÖFF ALL LIGHT ON AMP 9 2 : Reception code DUAL SOUND OMNI SP ON LEVEL 2 NB OFF AMP DUAL SOUND LEVEL 1 DUAL SOUND INPUT TUNER DUAL SOUND INPUT TAPE DUAL SOUND INPUT MD/DAT DUAL SOUND INPUT VIDEO DUAL SOUND INPUT AV/AUX CD REC OFF OFF LEVEL 3 CD REC ON HIT MASTER DUAL SOUND ON CD FAN SPEED LOW DUAL SOUND FAN SPEED OFF HIGH FAN OFF FAN ON BGM OFF NB ON **BGM ON** က DUAL SOUND ON TAPE 2 MONITOR OFF TAPE 2 MONITOR ON SP B OFF DBS/TV LAC VOL UP SP B ON LAC VOL DOWN LAC VOL STOP VIDEO MUTE ON 0 : Transmission code LOUDNESS LOUDNESS SUB SONIC SOURCE DIRECT ON LINE STRAIGHT OFF SUB SONIC OFF SPEAKER OFF (SP A OFF) LINE STRAIGHT ON SPEAKER ON (SPACN) CD DIRECT SUPER WOOFER OFF SUPER WOOFER ON SOURCE DIRECT OFF POWER OFF CD DIRECT POWER ON SEL MUTE ON TAPE 1 (TAPE A) TAPE 2 (TAPE B) VIDEO 1 (VIDEO) MUTE ON AL OFF PHONO VIDEO 2 VIDEO 3 AUX DAT 9 VΡ 0 FUNC o Ø æ ш

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# **ADJUSTMENT**

## T-1001

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM S	SECTION Unless	s otherwise specified, the BAND: FM	individual switch	nes should be s	et as following:		
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	



# **ADJUSTMENT**

T-1001L

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM S	ECTION	BAND: FM					
1	DISCRIMINATOR	(A) 98.0MHz	Connect a DC voltmeter between	AUTO or MONO	L3 (X05-)	ov	(a)
	DISCRIMINATOR	1kHz, ±75kHz dev 60dΒμ(ANT input)	TP3 and TP4. (X05-)	98.0MHz	L4 (X05-)	Minimum distortion.	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Pilot: ±7.5kHz dev 60dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	
3	SEPARATION	(C) 98.0MHz 1kHz, ±40kHz dev Pilot: ±6kHz dev Selector: L or R 60dBμ(ANT input)	(B)	AUTO 98.0MHz	VR3 (X05-)	Minimum crosstalk.	
4	TUNING LEVEL	$\begin{array}{c} \text{(A)} \\ 98.0\text{MHz} \\ 1\text{kHz}, \pm 75\text{kHz} \text{ dev} \\ 14\text{dB}\mu \text{(ANT input)} \ 75\Omega \\ 18\text{dB}\mu \text{(ANT input)} \ 300\Omega \end{array}$	(B)	AUTO or MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where FL201 (TUNED) goes ON.	
AM S	SECTION	BAND: AM(MW)				-	
(1)	TUNING LEVEL	(D) 1008 kHz 400Hz, 30% mod 26 dBμ (ANT input)	(B)	1008 kHz	VR2 (X05-)	Adjust VR2 and stop at the point where FL201 (TUNED) goes ON.	

When TUNER PCB (X05-) is disconnected from main unit, connect PCB's GND (ANT shield plate) and main unit chassis using aligator clip. Then, check TUNER PCB.

# **REGLAGE**

## T-1001

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SEC	TION MF A m	oins, de spécification contr BANDE: FM	raire, régler les com	mutateurs res	pectifs comme si	uit:	
1	DISTORSION (STEREO)	(С) 98,0MHz 1kHz, ±68,25kHz dév Selecteur: L ou R 60dBµ(Entrée ANT)	(B)	AUTO 98,0MHz	IFT (W02-)	Distorsion minimale.	

## T-1001L

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SEC	TION MF	BANDE: FM					
1	DETECTEUR	(A) 98,0MHz	Relier un voltmètre CC entre les TP3	AUTO ou MONO	L3 (X05-)	oV	(-)
		1kHz, ±75kHz dév 60dBμ(Entrée ANT)	et TP4. (X05-)	98,0MHz	L4 (X05-)	Distorsion minimale.	(a)
2	DISTORSION (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz dév Signal pilote: ±7,5 kHz dév 60dΒμ(Entrée ANT)	(B)	AUTO 98,0MHz	IFT (W02-)	Distorsion minimale.	
3	SEPARATION	(C) 98,0MHz 1kHz, ±40kHz dév Signal pilote: ±6 kHz dév Selecteur: L ou R 60dΒμ(Entrée ANT)	(B)	AUTO 98,0MHz	VR3 (X05-)	Diaphonie minimale.	
4	NIVEAU D'ACCORDER	(A) 98,0MHz 1 kHz, ±75 kHz dév 14dBμ(Entrée ANT) 75Ω 18dBμ(Entrée ANT) 300Ω	(B)	AUTO ou MONO 98,0MHz	VR1 (X05-)	Ajuster VR1 arréter le mouvement de VR1 au moment oú le FL201 (TUNED) s'allume.	
SEC	TION MA	BANDE: AM(MW)					1
(1)	NIVEAU D'ACCORDER	(D) 1008 kHz 400 Hz, 30% mod 26dΒμ(Entrée ANT)	(B)	1008 kHz	VR2 (X05-)	Ajuster VR2 arréter le mouvement de VR1 au moment oú le FL201 (TUNED) s'allume.	

# T-1001/L T-1001/L

# **ABGLEICH**

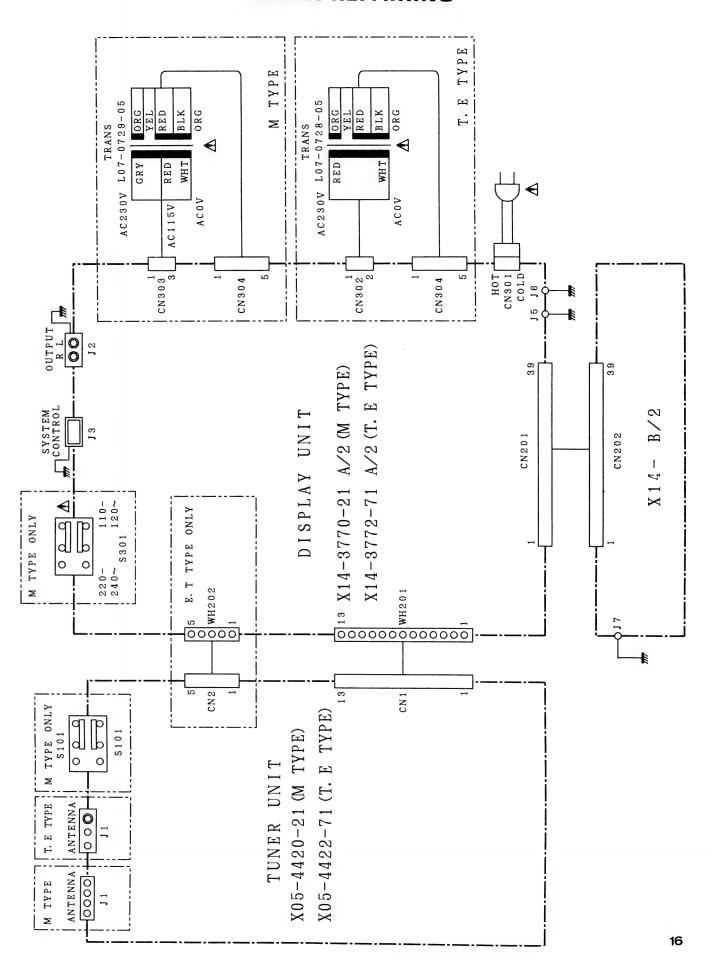
## T-1001

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS- EINSTELLUNG	TUNER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FUR	ABB.		
UKV	KW-EMPFANGSABTEILUNG Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: BAND: FM								
1	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R 60dBµ(ANT-Eingang)	(B)	AUTO 98,0MHz	IFT (W02-)	Minimal Klirrfaktor.			

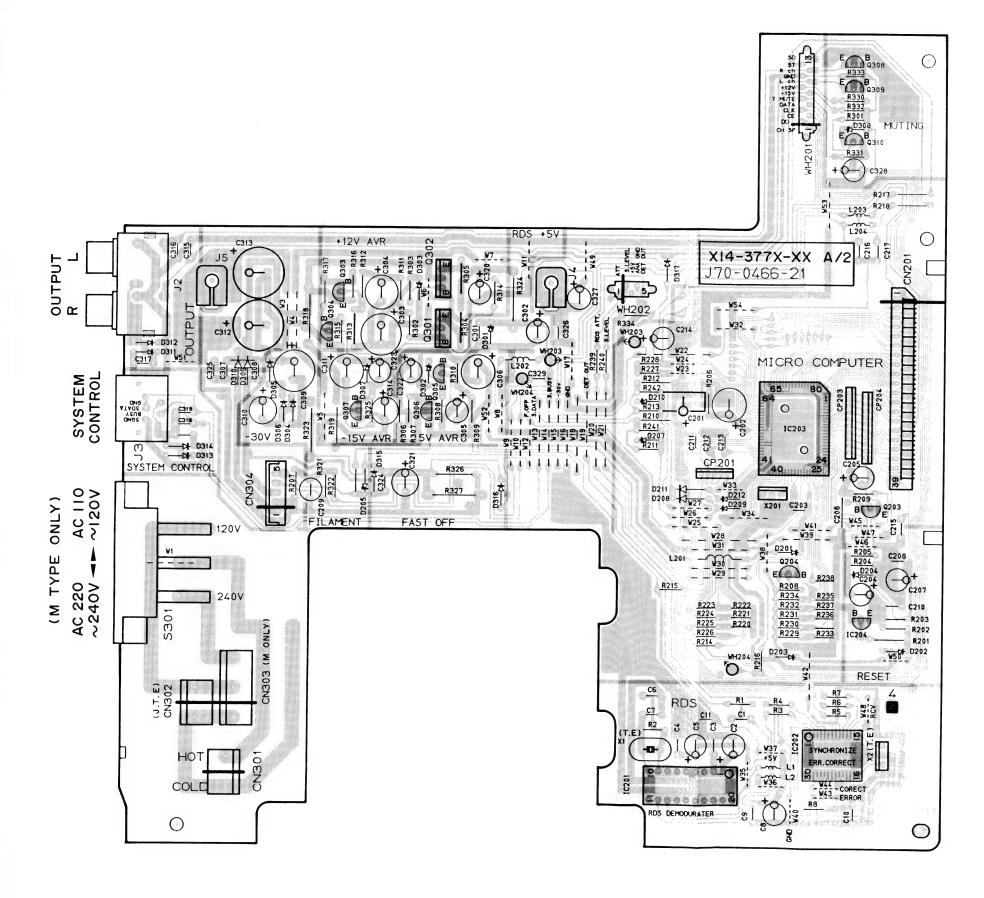
## T-1001L

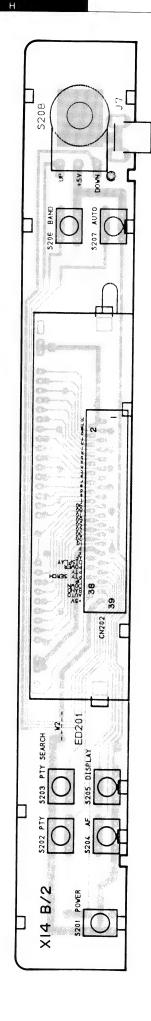
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS- EINSTELLUNG	TUNER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FUR	ABB.
UKV	V-EMPFANGSABTE	EILUNG BAN	ID: FM				•
		(A) 98.0MHz	Einen Gleíchspannungs- messer zwischen	AUTO oder MONO 98,0MHz	L3 (X05-)	ov	
1	DETEKTOR	1kHz, ±75kHz Hub 60dBμ(ANT-Eingang)	1kHz, ±75kHz Hub 60dBµ(ANT-Eingang) TP3 und TP4 anschließen. (X05-)		L4 (X05-)	Minimal Klirrfaktor.	(a)
2	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz Hub Pilotten: ±7,5 kHz Hub 60dBµ(ANT-Eingang)	(B)	AUTO 98,0MHz	IFT (W02-)	Minimal Klirrfaktor.	
3	TRENNUNG	(C) 98,0MHz 1kHz, ±40 kHz Hub Pilotten: ±6 kHz Hub Wähler: L oder R 60dBµ(ANT-Eingang)	(B)	AUTO 98,0MHz	VR3 (X05-)	Optimale Trennung.	
4	ABSTIMM PEGEL	(A) 98,0MHz 1 kHz, ±75 kHz Hub 14dBμ(ANT-Eingang) 75Ω 18 dBμ(ANT-Eingang) 300Ω	(B)	AUTO oder MONO 98,0MHz	VR1 (X05-)	Den Pegel wiederstand aufdrehen, und dem VR1 Halt geben wobei den FL201 (TUNED) anzeiger leuchtet wird.	
MW	-EMPFANGSABTEI	LUNG BAN	D: AM(MW)	1			
(1)	ABSTIMM PEGEL	(D) 1008 kHz 400 Hz, 30% mod 26dBμ(ANT-Eingang)	(B)	1008 kHz	VR2 (X05-)	Den Pegel wiederstand aufdrehen, und dem VR2 Halt geben wobei den FL201 (TUNED) anzeiger leuchtet wird.	

# WHEN REPAIRING



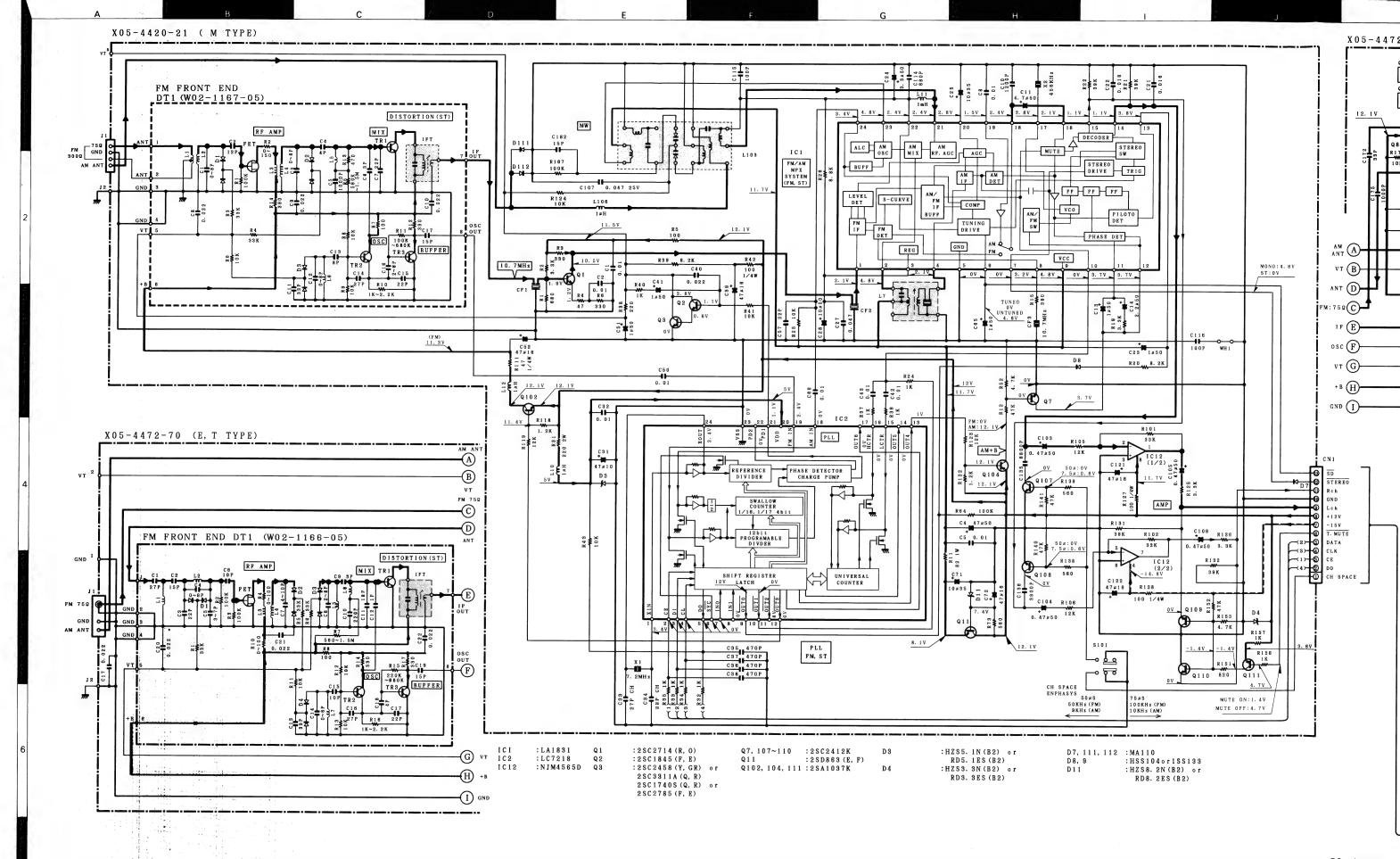
# PC BOARD (Component side view)



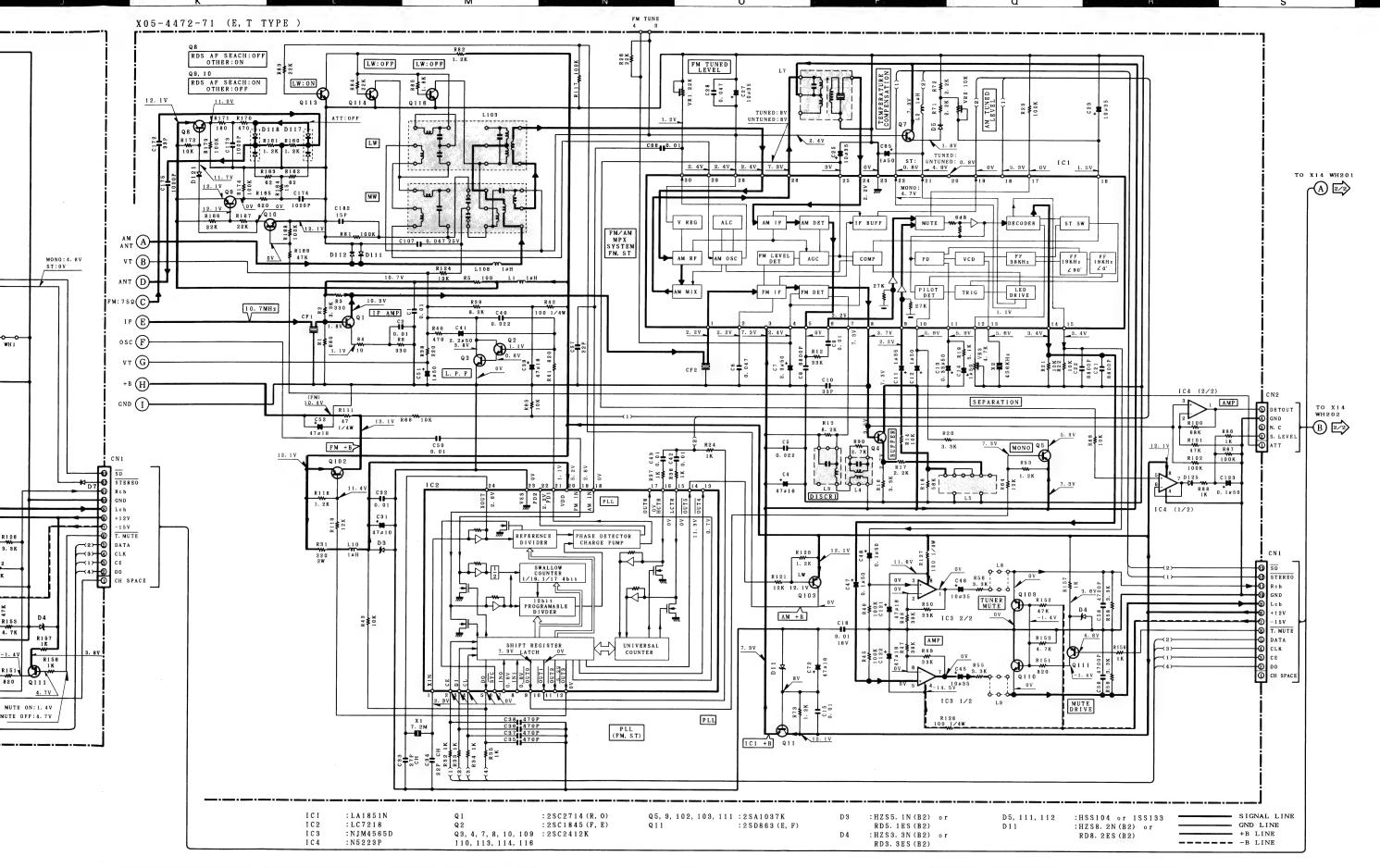


FRONT

Refer to the schematic diagram for the values of resistors and capacitors.



DC voltages are a during reception of of 60 dB at the A variations between parentheses are as signal (with a signal



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la bome ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux annarells et aux instruments de measure individuels.

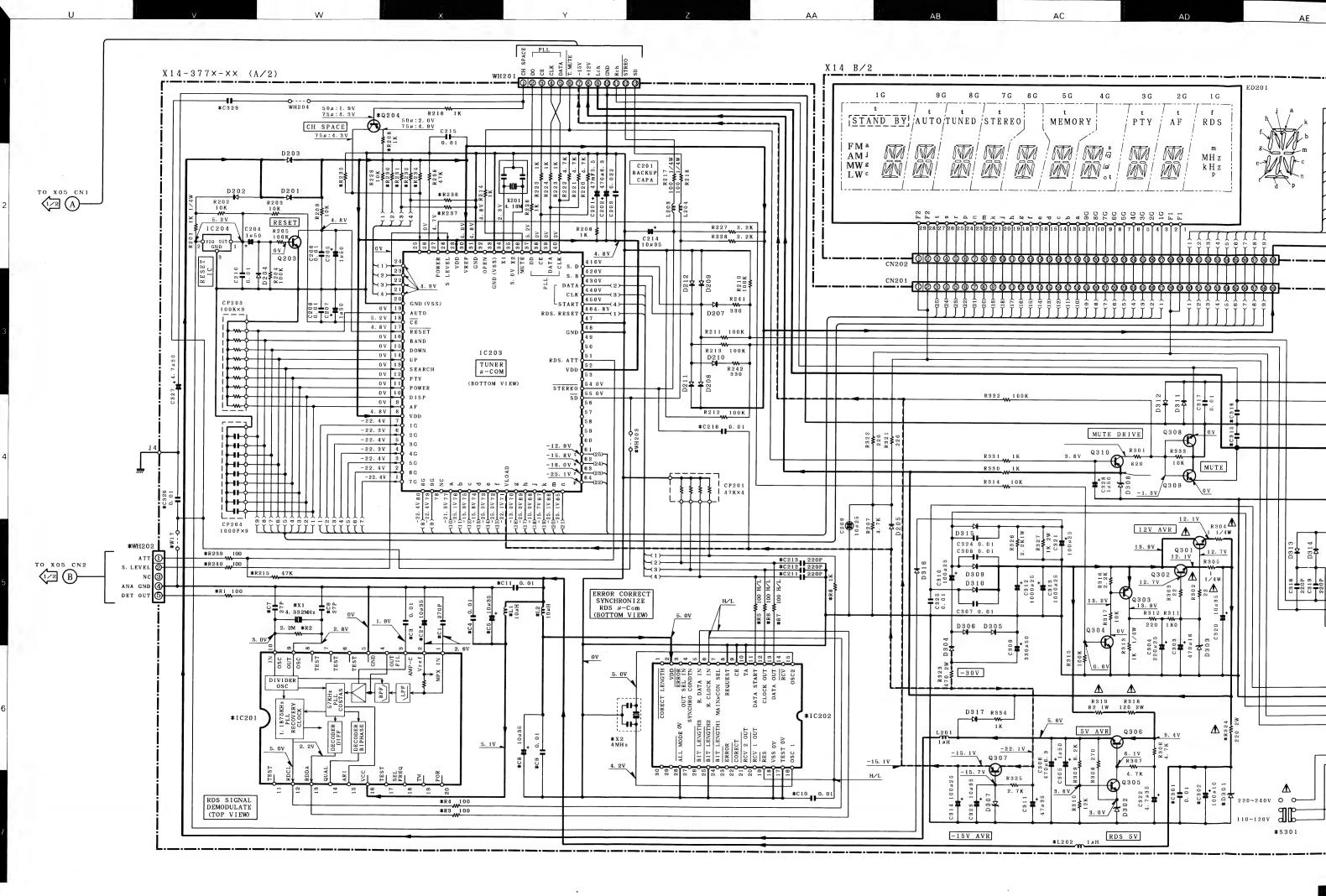
appareils et aux instruments de measure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT). Die angegebenen Gleichspannungswertre wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.

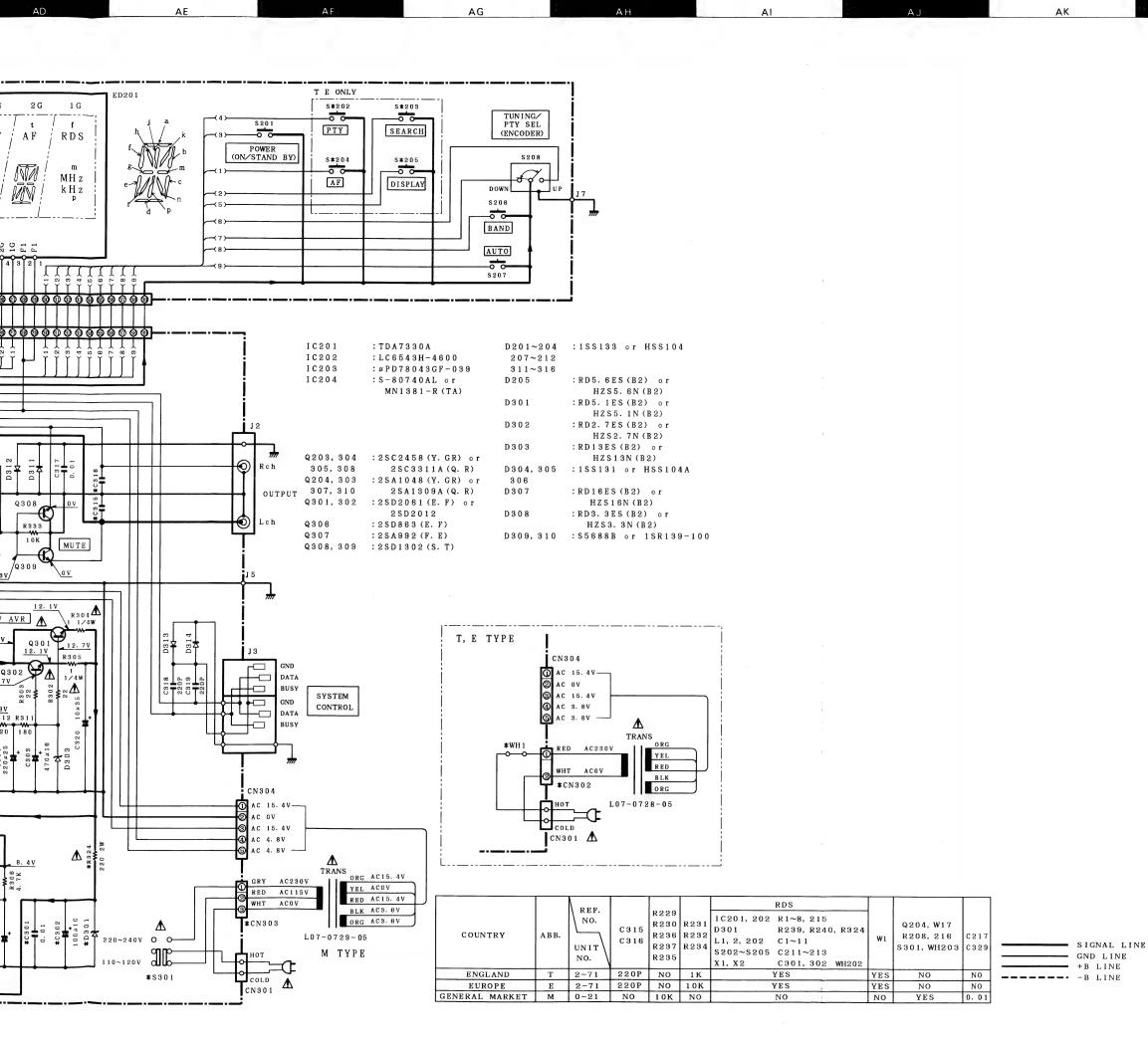
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

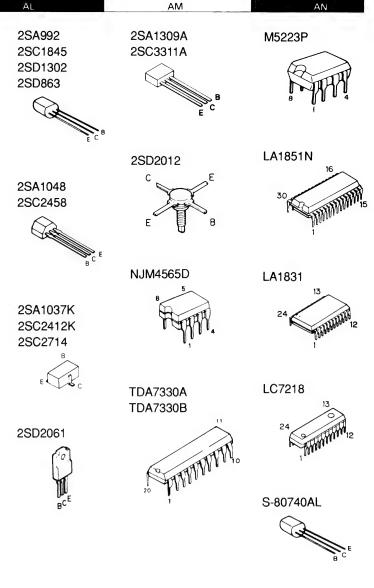
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T-1001/L

Y07-3620-21







**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). 

indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

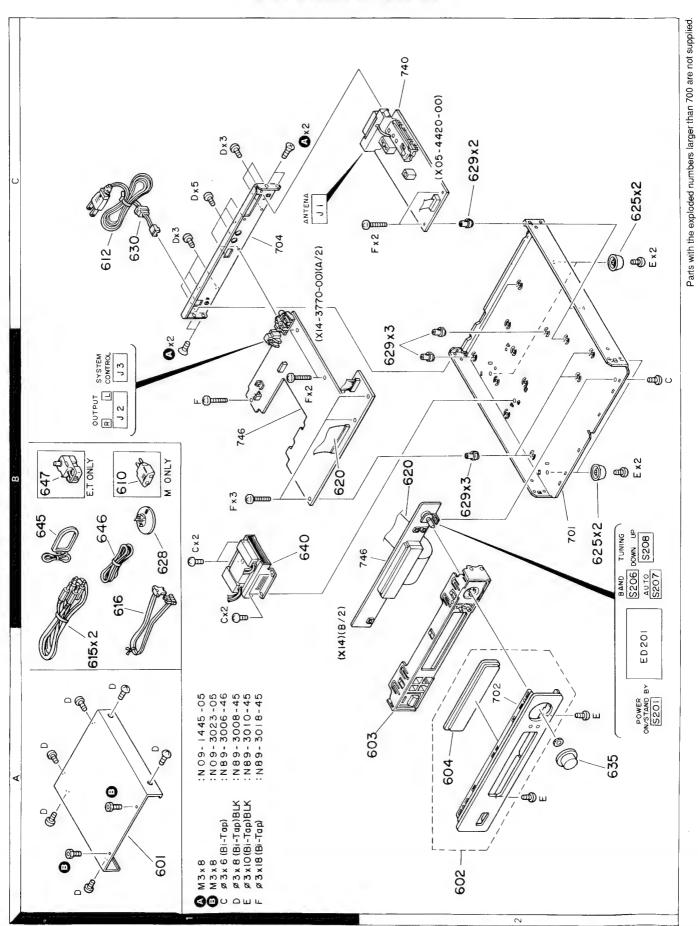
Die angegebenen Gleichspannungswertre wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.

2/2

Y07-3620-21

T-1001/L KENWOOD

# **EXPLODED VIEW**



# **PARTS LIST**

# **TUNER UNIT**

Unit No.	Destination
X05-4420-21	Σ
X05-4422-71	T,E

DISPLAY UNIT	
Unit No.	Destination
X14-3770-21	M
X14-3772-71	_

A indicates safety critical components.

E:Europe M:Other Areas

T:England

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

A indicates safety critical components.

# **PARTS LIST**

\* New Parts

Desti- Re-nation marks 仕 向無考

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sscripti	品名/規	MHØ 0	H DE			NER) HESIZER) (2)			F-END ASSY 444X-XX)	0.010UF 47UF 0.022UF 0.047UF 3.3UF	6800PF 0.010UF 33PF 10UF 1.0UF	0.33UF 1.0UF 0.010UF 0.01UF	6800PF 10UF 10UF 10UF 0.047UF	47UF 0.010UF 27PF 22PF
	梅	CHIP R	SLIDE SWITC	ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	ICCAM/FM TUNER ICCPLL SYNTHES ICCOP AMP X2) TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR	FM FRONT-ENT (X05-44	ECTRO IP C IP C IP C ECTRO	CHIP C CHIP C CHIP C ELECTRO	ELECTRO ELECTRO CHIP C CERAMIC CHIP C	CHIP C ELECTRO ELECTRO ELECTRO CHIP C	BLECTRO CHIP C CHIP C CHIP C
Parts No.	部 田 郷 中	R92-0670-05	562-0034-05	HZS5.1N(B2) RD5.1ES(B2) HZS3.3N(B2) RD3.3ES(B2) MA110	HSS104 1SS133 HZSB.2N(B2) RDB.2ES(B2) MA110	LA1831 LC7218 NJM4565D 2SC2714(R,0) 2SC1845(F,E)	2SC2458(Y,GR) 2SC3311A(Q,R) 2SC2412K 2SD863(E,F) 2SA1037K	SSC2412K SSC2412K SSA1037K	TUNER UNI	CK73FB1H103K CE04KH1C470M CK73FB1H223K CK73FB1E473K CE04KW1H3R3M	K73FB1H682K K73FB1H103K C73FSL1H330J E04KW1V100M	E04KW1HR33M E04KW1H010M K73FB1H103K 91-0769-05 K73FB1H223K	K73FB1H682K E04KW1V100M E04KW1V100M E04KW1V100M K73FB1E473K	E04KW1A470M K73FB1H103K C73FCH1H270J
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Description		0.010UF 0.010UF 1200PF 4.7UF	2.20F 0.016UF 1.00F 3.3UF	0.047UF 10UF 47UF 0.010UF	22PF 470PF 47UF 0.022UF 1.0UF	0.010UF 0.01UF 1.0UF 47UF 22PF	1.00F 1000PF 10UF 47UF	100PF 680PF 100PF 47UF 6800PF	15PF	BOARD A	ER ER INDUCTØR(11 INDUCTØR(11	INDUCTOR(1UH) COIL INDUCTOR(1UH) NATOR(7,2MHZ) (19KHZ)	82 2220 1100 100	
Q	體	CHIP C CHIP C CHIP C ELECTRO	ME ME ELECTRO ELECTRO ELECTRO	CHIP C ELECTRO ELECTRO CHIP C CHIP C	CHIP C CHIP C ELECTRO CHIP C ELECTRO	CHIP C CERAMIC ELECTRO CHIP C	BLECTRO CHIP C BLECTRO ELECTRO	CHIP C CHIP C CHIP C ELECTRØ	CHIP C	LOCK TERMINAL	CERAMIC FILT CERAMIC FILT AM IFT SMALL FIXED SMALL FIXED	SMALL FIXED COMBINATION SMALL FIXED CRYSTAL RESOIR	FL-PROOF RS FL-PROOF RS RD RD RD	
Parts No.	部品等	CK73FB1H103K CK73FB1H103K CK73FB1H122K CE04KW1H4R7M CE04KW1H010M	CEO4KW1H2R2M CF92FV1H163J CEO4KW1H010M CEO4KW1H3R3M CEO4KW1V100M	CK73FB1E473K CE04KW1V100M CE04KW1A470M CK73FB1H103K CC73FCH1H270J	CC73FCH1H220J CK73FB1H471K CE04KW1C470M CK73FB1H223K CE04KW1H010M	CK73FB1H103K C91-0769-05 CE04KW1H010M CE04KW1C470M CC73FSL1H220J	CEO4KW1HO10M CK73FB1H102K CEO4KW1V100M CEO4KW1C470M CK73FB1E473K	CC73FSL1H101J CK73FB1H681K CC73FSL1H101J CE04KW1C470M CF92FV1H682J	CC73FSL1H150J	E20-0476-05	L72-0531-05 L72-0574-05 L30-0467-05 L40-1091-17 L40-1021-14	L40-1091-17 L39-1309-05 L40-1091-17 L77-1122-05 L78-0295-05	RS14KB3A820J RS14KB30221J RD14NB2E101J RD14NB2E470J RD14NB2E101J	
New	Parts													_
Address	台													
Ref. No.	物理事品	CS C08 C10 C11	C14 C21 ,22 C23 C24 C25	C27 C38 C31 C32 C33	C34 C35 -38 C39 C40 C41	C42 ,43 C50 C51 C51 C57	C65 C66 C71 C72 C107	C112 C114 C115, 116 C121, 122 C135, 136	C182	J1	CF3 ,2 CF3 ,2 L7 L110	L12 L103 L106 X1	R11 R31 R42 R111 R127,128	

K:USA T:England X:Australia L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

P:Canada E:Europe M:Other Areas

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Desti- Re-nation marks 仕 向 審考

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# **PARTS LIST**

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	Description 部品名/规格	FM TUNER) SYNTHESIZER) AMP X2) AMP X2)	STOR STOR STOR STOR STOR	STOR STOR STOR STOR STOR	STOR STOR STOR	4-377X-XX)		100F 35WV 0.010UF Z 0.047F 5.5WV 470UF 6.3WV	1.00F 50WV 0.01UF K 1.00F 50WV 0.010UF Z 10UF 25WV	0.010UF Z 220PF J 0.010UF Z 0.010UF Z 0.010UF Z	100UF 10WV 470UF 16WV 220UF 25WV 1.0UF 50WV 470UF 6.3WV	0.010UF Z 330UF 50WV 100UF 25WV 47UF 35WV 1000UF 25WV
oas fournis		DIODE ICCAM, ICCPLL ICCOP ICCOP	TRANSI TRANSI TRANSI TRANSI TRANSI	TRANSI TRANSI TRANSI TRANSI TRANSI	TRANSIS TRANSIS	FM FRONT	SEL	ELECTRO CERAMIC BACKUP ELECTRO CERAMIC	ELECTRO CERAMIC ELECTRO CERAMIC NP-ELEC	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	CERAMIC BLECTRO BLECTRO BLECTRO BLECTRO
<ul> <li>New Parts</li> <li>Parts without Parts No. are not supplied.</li> <li>Les articles non mentionnes dans le Parts No. ne sont pas fournis Teile onne Parts No. werden nicht geliefert.</li> </ul>	Parts No. 數品爾号	MA110 MA110 LC7218 NJM4565D M5223P	2SC2714(R, Ø) 2SC1845(F, E) 2SC2412K 2SA1037K 2SC2412K	2SA1037K 2SC2412K 2SD863(E,F) 2SA1037K 2SC2412K	2SA1037K 2SC2412K 2SC2412K	W02-1166-05 DISPLAY UN	03Z 00M 00M 270J	CEO4KW1V100M CK45FF1H103Z C90-1826-05 CEO4KW0J471M CK45FF1H223Z	CEO4KW1H010M C91-0769-05 CEO4KW1H010M CK45FF1H103Z C90-1332-05	X45FF1H103Z C45FSL1H221J X45FF1H103Z X45FF1H103Z	E04KW1A101M E04DW1C471M E04KW1E221M E04KW1H010M E04KW0J471M	CK45FF1H103Z CE04DW1H331M CE04KW1E101M CE04KW1V470M C90-3519-05
e not ss dal n nich	New Parts						10000	00000	30300	00000	00000	
Parts No. and mentlonne No. werder	Address 位置										-	* *
<ul> <li>New Parts</li> <li>Parts without Parts No. are not supplied</li> <li>Les articles non mentionnes dans le Part</li> <li>Telle ohne Parts No. werden nicht geliefe</li> </ul>	Ref. No. 参照番号	D125 IC1 IC2 IC3 IC3	91 92 93 , 4 95 97 , 8	99 Q10 Q11 Q12,103 Q109,110	9111 9113,114 9116	DT1	CC1 CC3 CC5 CC5 CC5 CC5	C8 C9 -11 C201 C202 C203	C204,205 C206 C207 C208 C209	C210 C211-213 C215 C217 C301	C302 C303 C304 C305 C306	C307,308 C309 C310 C311
N04	Re- marks 審地											
-	sti- tion fa											

P:Canada	E.Europe	M:Other Areas
<b>K:</b> USA	T:England	X:Australia
L:Scandinavia	Y:PX(Far East, Hawaii)	Y:AAFES(Europe)

A indicates safety critical components.

25WV 3 2 2 3

100UF 220PF 0.010UF 220PF

ELECTRO CERAMIC CERAMIC CERAMIC

CE04KW1E101M CC45FSL1H221J CK45FF1H103Z CC45FSL1H221J

C314 C315,316 C317 C318,319

No.	Re- marks 晚												-	
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	Description 部 品 名/規 格	ELECTRO 470F 164V MYLAR 0.022UF J NP-ELEC 2.2UF 504V CLIP 0.010UF 354V	CERAMIC 0.01UF K ELECTRO 1.0UF 50WV BLECTRO 47UF 16WV CHIP C 22PF J	ELECTRO 1.00F 50WV CERAMIC 0.01UF K ELECTRO 47UF 16WV CHIP C 0.047UF K ELECTRO 47UF 16WV	ELECTRO 0.1UF 50WV CHIP C 33PF J CHIP C 1000PF K CHIP C 15PF J	LOCK TERMINAL BOARD ANTENNA	CERAMIC FILTER SMALL FIXED INDUCTOR(1UH) FM IFT LC FILTER	AM IFT LC FILTER SMALL FIXED INDUCTOR(1UH) COMBINATION COIL SMALL FIXED INDUCTOR(1UH)	CRYSTAL RESONATOR(7.2MHZ) RESONATOR (19KHZ)	FL-PROOF RS 220 J 2W RD 100 J 1/4W RD 47 J 1/4W RD 100 J 1/4W TRIMMING POT.(22K) FM LEVEL	TRIMMING POT.(10K) AM LEVEL TRIMMING POT.(4.7K) SEPARATION CHIP R 0 0HM	ZENER DIØDE ZENER DIØDE ZENER DIØDE SENER DIØDE DIØDE	DIODE ZENER DIODE ZONER DIODE DIODE	DIODE
	等品 幸 中	CEO4KW1C470M CQ92FM1H223J CEO4HW1H2R2M CK73FB1H103K CEO4KW1V100M	C91-0769-05 CEO4KW1H010M CEO4KW1C470M CC73FCH1H220J CK73FB1H472K	CEO4KW1H010M C91-0769-05 CEO4KW1C470M CK73FB1E473K	CEO4KW1HORIM CC73FSL1H330J CK73FB1H102K CC73FSL1H150J	E20-0321-05	L72-0536-05 L40-1091-17 L30-0496-05 L30-0497-05 L79-0125-05	L30-0467-05 L79-0790-05 L40-1091-17 L39-1310-05 L40-1091-17	L77-1122-05 L78-0295-05	RS14KB3D221J RD14NB2E101J RD14NB2E470J RD14NB2E101J R12-3686-05	R12-3685-05 R12-1619-05 R92-0670-05 R92-0679-05	HZS5.1N(B2) RD5.1ES(B2) HZS3.3N(B2) RD3.3ES(B2) HSS104	1SS133 HZSB.2N(B2) RDB.2ES(B2) HSS104 1SS133	155268 MA110
	Parts													
A 4.4	<b>☆</b>													
3	DIT:	C39 C40 C41 C42,43	C50 C51 C52 C57 C57	C65 C66 C72 C107 C121,122	C123 C172 C173-175 C182	J1	CF1,2 L1,2 L3,2 L4	L7 L8 ,9 L103 L106	X1 X2	R31 R42 R111 R127, 128 VR1	VR2 VR3 W100-103 W200-211	033 044 054	D5 D11 D11,112 D111,112	D117,118

 $\Delta$  indicates safety critical components.

E:Europe M:Other Areas P:Canada

T:England X:Australia K:USA

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht gellefert. Parts without Parts No. are not supplied.

A indicates safety critical components.

E.Europe M:Other Areas

T:England X:Australia

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

# **PARTS LIST**

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Description	部 品 名/規 格	ZENER DIØDE DIØDE DIØDE DIØDE DIØDE	INDICATOR TUBE IC(RDS DEMODULATOR) IC(RDS DEMODULATOR) IC	IC(VOLTAGE DETECT) IC(VOLTAGE DETECTOR) TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR			
Parts No.	能 明 幸 名	RD3.3ES(B2) S5668B 1SR139-100 HSS104 1SS133	CM1224C TDA7330A TDA7330B LC6543H-4600 UPD78043GF-039	MN1381-R(TA) S-80740AL 2SC2458(Y,GR) 2SC3311A(Q,R) 2SA1048(Y,GR)	2SA1309A(Q,R) 2SD2012 2SD2061(E,F) 2SA1048(Y,GR) 2SA1309A(Q,R)	2SC2458(Y,GR) 2SC3311A(Q,R) 2SD863(E,F) 2SA992(F,E) 2SD1302(S,T)	2SA1309A(Q,R)			
New C	2 Mm		* * *							
Address	位									
Ref. No.	<b>参照番号</b>	D308, D309,310 D309,310 D311-317	ED201 1C201 1C201 1C202 1C203	IC204 Q203 Q203	0204 0301,302 0301,302 0303	9304,305 9304,305 9306 9307 9307	Q310 Q310			

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## B # A # # ##  ELECTRO 1001F 254V  ELECTRO 1001F 274V  ELECTRO 1	Desti- nation 住 向	TE	ΣΣ		H	TE		Ħ		Σ⊢Σ Σ		TE		
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ELECTRO CERANIC COMP PUDANIC COMP MULTI-COMP MULTI-COMP CI-PROOF R C		100F 100UF 4.7UF 10UF 0.010UF	0.010UF 4.7UF 1.0UF 0.010UF	WNNCTWR WNNCTWR WUTPUT RECEPTACLE	INDUCTOR(1) INDUCTOR(1) INDUCTOR(1) INDUCTOR(1) NATOR(4.33	(4.00M) (4.194M)	47KX4 1000KX9 1000PFX 1.0	120 82 470 220 2.2K		POWER, POWER, BAND, A H TUNING VOLTAGE				
4	_	LECTRO LECTRO LECTRO LECTRO ERAMIC	ERAMIC LECTRO LLECTRO	LAT CABLE CO LAT CABLE CO PHONO JACK RECTANGULAR F	22222	RESONATOR	MULTI-COMP MULTI-COMP MULTI-COMP FL-PROOF RD	PROOF R PROOF R PROOF R PROOF R	L-PROOF	SWITCH SWITCH SWITCH SY SWITCH	A DIOD	0000	ENER D IODE IODE ENER D	~ ~
	is No.		3Z 2 0	ณณณ	11111	10.10			023	10 10 10 10 10	B2)	2222	HZS13N(B2) RD13ES(B2) HSS104A 1SS131 HZS16N(B2)	(B2) N(B2)
				*			*							
Za	Address ∰ ∰			18 28										
w M	Ref. No. 黎丽華忠	320 321 322 322 324-326	C324, 325. C327 C328 C329	CN201 CN202 J2 J3	L1 ,2 L201 L201-204 L203,204 X1	X2 X201	CP201 CP203 CP204 R304, 305 R313	R318 R319 R323 R324 R326	327	\$201 \$201-207 \$206,207 \$301	0201-204 0201-204 0205 0205 0207-212	D207-212 D301 D301 D302 D302	D303 D303 D304-306 D304-306	D307 D308

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## **SPECIFICATIONS**

T-1001/L

T-1001	
FM tuner section	
Tuning frequency range87.5 MHz ~ 108	MHz
Usable sensitivity (MONO at 75 $\Omega$ ) 1.2 $\mu$ V / 13.2	
Signal to noise ratio (at 1 kHz)	
MONO75 dB (65 dBf ir	nut)
STEREO68 dB (65 dBf ir	inut)
Stereo separation	.put,
1 kHz4	0 dB
Selectivity (±400 kHz)5	0 dB
Frequency response (30 Hz ~ 15 kHz)+0.5 dB, -3.	
Output level / impedance	o ab
(at 1 kHz, 75 kHz dev)600 mV / 3.	<b>3 k</b> Ω
AM tuner section	
Tuning frequency range	
9 kHz step531 kHz ~ 1,602	2 kHz
10 kHz step530 kHz ~ 1,610	
Usable sensitivity12 μV / (500 μ'	V/m)
μ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ	- //

3 KI12 Step
10 kHz step530 kHz ~ 1,610 kHz
Usable sensitivity
Signal to noise ratio (at 30 % mod. 1 mV input) 48 dB
Output level / impedance
(at 30 % mod. 1 mV input)180 mV / 3.3 k $\Omega$
General
Power consumption10W
DimensionsW: 270 mm (10 - 5/8")
H : 60 mm (2 - 3/8")
D : 329 mm (12 - 15/16")
Weight (Net)3 kg (6.6 lb)

MW tuner section
Tuning frequency range531 kHz ~ 1,602 kHz
Usable sensitivity12 μV / (500 μV/m)
Signal to noise ratio (at 30% mod. 1 mV input) 46 dB
Output level / impedance
(at 30% mod. 1mV input)180 mV / 3.3 k $\Omega$
LW tuner section
Tuning frequency range 153 kHz ~ 281 kHz
Usable sensitivity22 μV
Signal to noise ratio (at 30 % mod. 1 mV input) 45 dB
Output level / impedance
(at 30 % mod. 1 mV input)180 mV / 3.3 k $\Omega$
General
Power consumption10 W
Dimensions
H : 60 mm (2 - 3/8")
D : 329 mm (12 - 15/16")

## KENWOOD CORPORATION

Weight (Net).....3 kg (6.6 lb)

Alive Mitake, 2-5, 1-chome Shibuya, Shibuya-ku, Tokyo 150, Japan KENWOOD SERVICE CORPORATION
PO. BOX 22745. 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A. KENWOOD ELECTRONICS CANADA INC. 6070 Kestrel Road, Mississauga, Ontario, Canada LST 1S8
KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama. Republic de Panama TRIO-KENWOOD U.K. LIMITED Kenwood House, Dwight Road, Watford, Herts, WD1 8EB. United Kingdom KENWOOD ELECTRONICS BENELUX N.V. Mechelsesteenweg 418 B-1930 Zaventem, Belgium KENWOOD ELECTRONICS DEUTSCHLAND GMBH Rembrücker Str. 15, 63150 Heusenstamm, Germany TRIO-KENWOOD FRANCE S.A. 13 Boulevard Ney, 75018 Paris, Franci KENWOOD ELECTRONICS ITALIA S.p.A. Via G. Sirtori, 7/9 20129 Milano, Italy KENWOOD ESPANA S.A. Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A C N 001 499 074)

PO. BOX 504. 8 Figtree Drive, Australia Centre. Homebush. N.S.W. 2140. Australia KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T. Hong Kong KENWOOD ELECTRONICS SINGAPORE PTE LTD

No. 1 Genting Lane #07-00. KENWOOD Building, Singapore, 1334

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Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of atternate schematic diagrams, and information on regional component variations through use of parts list.